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RAW SEQUENCE LISTING

DATE: 08/28/2001

PATENT APPLICATION: US/09/918,887

TIME: 14:25:40

Input Set : N:\Crf3\RULE60\09918887.txt

Output Set: N:\CRF3\08282001\I918887.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:
6 (i) APPLICANT: Rybak, Susanna M.
7 Newton, Dianne L.
8 Goldenberg, David M.
10 (ii) TITLE OF INVENTION: Immunotoxins Directed Against Malignant
11 Cells
13 (iii) NUMBER OF SEQUENCES: 3
15 (iv) CORRESPONDENCE ADDRESS:
16 (A) ADDRESSEE: Townsend and Townsend and Crew LLP
17 (B) STREET: Two Embarcadero Center, Eighth Floor
18 (C) CITY: San Francisco
19 (D) STATE: California
20 (E) COUNTRY: USA
21 (F) ZIP: 94111-3834
23 (v) COMPUTER READABLE FORM:
24 (A) MEDIUM TYPE: Floppy disk
25 (B) COMPUTER: IBM PC compatible
26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
27 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
29 (vi) CURRENT APPLICATION DATA:
C--> 30 (A) APPLICATION NUMBER: US/09/918,887
C--> 31 (B) FILING DATE: 30-Jul-2001
32 (C) CLASSIFICATION:
34 (vii) PRIOR APPLICATION DATA:
35 (A) APPLICATION NUMBER: 09/071,672
36 (B) FILING DATE: 01-MAY-1998
38 (viii) ATTORNEY/AGENT INFORMATION:
39 (A) NAME: Weber, Ellen Lauver
40 (B) REGISTRATION NUMBER: 32,762
41 (C) REFERENCE/DOCKET NUMBER: 015280-32510US
43 (ix) TELECOMMUNICATION INFORMATION:
44 (A) TELEPHONE: (415) 576-0200
45 (B) TELEFAX: (415) 576-0300
48 (2) INFORMATION FOR SEQ ID NO: 1:
50 (i) SEQUENCE CHARACTERISTICS:
51 (A) LENGTH: 104 amino acids
52 (B) TYPE: amino acid
53 (C) STRANDEDNESS:
54 (D) TOPOLOGY: linear
56 (ii) MOLECULE TYPE: protein
59 (ix) FEATURE:
60 (A) NAME/KEY: Modified-site
61 (B) LOCATION: 1
62 (D) OTHER INFORMATION: /product= "OTHER"
63 /note= "Xaa = Glu or pyroglutamic acid"
65 (ix) FEATURE:

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66      (A) NAME/KEY: Protein
67      (B) LOCATION: 1..104
68      (D) OTHER INFORMATION: /note= "RNase A derived from
69 Rana pipiens, "onc protein"
72      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
W--> 74      Xaa Asp Trp Leu Thr Phe Gln Lys Lys His Ile Thr Asn Thr Arg Asp
75          1          5          10          15
77      Val Asp Cys Asp Asn Ile Met Ser Thr Asn Leu Phe His Cys Lys Asp
78          20          25          30
80      Lys Asn Thr Phe Ile Tyr Ser Arg Pro Glu Pro Val Lys Ala Ile Cys
81          35          40          45
83      Lys Gly Ile Ile Ala Ser Lys Asn Val Leu Thr Thr Ser Glu Phe Tyr
84          50          55          60
86      Leu Ser Asp Cys Asn Val Thr Ser Arg Pro Cys Lys Tyr Lys Leu Lys
87          65          70          75          80
89      Lys Ser Thr Asn Lys Phe Cys Val Thr Cys Glu Asn Gln Ala Pro Val
90          85          90          95
92      His Phe Val Gly Val Gly Ser Cys
93          100
96 (2) INFORMATION FOR SEQ ID NO: 2:
98      (i) SEQUENCE CHARACTERISTICS:
99          (A) LENGTH: 249 base pairs
100         (B) TYPE: nucleic acid
101         (C) STRANDEDNESS: single
102         (D) TOPOLOGY: linear
W--> 104      (ii) MOLECULE TYPE: DNA
107      (ix) FEATURE:
108          (A) NAME/KEY: -
109          (B) LOCATION: 1..249
110          (D) OTHER INFORMATION: /note= "nucleic acid encoding
111 "onc protein"
114      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
116 GATGTTGATT GTGATAATAT CATGTCAACA AACTTGTTCC ACTGCAAGGA CAAGAACACT      60
118 TTTATCTATT CACGTCCTGA GCCAGTGAAG GCCATCTGTA AAGGAATTAT AGCCTCCAAA      120
120 AATGTGTAA CTACCTCTGA GTTTTATCTC TCTGATTGCA ATGTAACAAG CAGGCCTTGC      180
122 AAGTATAAAT TAAAGAAATC AACTAATAAA TTTTGTGTAA CTTGTGAAAA TCAGGCACCA      240
124 GTTCATTTT      249
127 (2) INFORMATION FOR SEQ ID NO: 3:
129      (i) SEQUENCE CHARACTERISTICS:
130          (A) LENGTH: 83 amino acids
131          (B) TYPE: amino acid
132          (C) STRANDEDNESS:
133          (D) TOPOLOGY: linear
135      (ii) MOLECULE TYPE: protein
138      (ix) FEATURE:
139          (A) NAME/KEY: Protein
140          (B) LOCATION: 1..83
141          (D) OTHER INFORMATION: /note= "onc protein", positions 16-98
142 of SEQ ID NO:1"

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145 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
147 Asp Val Asp Cys Asp Asn Ile Met Ser Thr Asn Leu Phe His Cys Lys
148 1 5 10 15
150 Asp Lys Asn Thr Phe Ile Tyr Ser Arg Pro Glu Pro Val Lys Ala Ile
151 20 25 30
153 Cys Lys Gly Ile Ile Ala Ser Lys Asn Val Leu Thr Thr Ser Glu Phe
154 35 40 45
156 Tyr Leu Ser Asp Cys Asn Val Thr Ser Arg Pro Cys Lys Tyr Lys Leu
157 50 55 60
159 Lys Lys Ser Thr Asn Lys Phe Cys Val Thr Cys Glu Asn Gln Ala Pro
160 65 70 75 80
162 Val His Phe

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VERIFICATION SUMMARY

DATE: 08/28/2001

PATENT APPLICATION: US/09/918,887

TIME: 14:25:42

Input Set : N:\Crf3\RULE60\09918887.txt

Output Set: N:\CRF3\08282001\I918887.raw

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1

L:104 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=2